

**DRAFT SCREENING SITE INVESTIGATION
FOR THE
JOS. ROSENTHAL'S SONS COMPANY
1837 NORTH 2ND STREET
PHILADELPHIA, PENNSYLVANIA
ECKEL SITE NUMBER 58**

Prepared for

U.S. Environmental Protection Agency Region 3
Hazardous Property Cleanup Division
1650 Arch Street
Philadelphia, PA 19103

Prepared by

Tetra Tech EM Inc.
7 Creek Parkway, Suite 700
Boothwyn, PA 19061

Remedial Action Contract No. 68-S7-3002
Work Assignment No. 048-PAPA-03ZZ
Project No. I4185.47502.0903

February 7, 2007

CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
2.0 SITE LOCATION.....	2
3.0 SITE OBSERVATIONS.....	3
4.0 POTENTIAL TARGETS.....	4
5.0 FINDINGS AND RECOMMENDATIONS	4
REFERENCES	5

APPENDIX

- A FIGURES
- B PHOTOGRAPHIC DOCUMENTATION

1.0 INTRODUCTION

Under Remedial Action Contract (RAC) No. 68-S7-3002, Work Assignment No. 048-PAPA-03ZZ, U.S. Environmental Protection Agency (EPA) Region 3 tasked Tetra Tech, Inc. (Tt), to assist EPA Region 3 in the assessment of properties suspected to have been former lead smelter foundries. Tt subcontracted completion of this work assignment to Tetra Tech EM Inc. (Tetra Tech).

Former lead smelter sites nationwide were identified in an April 2001 article published in the American Journal of Public Health by Eckel, and others (Eckel study) (Reference [Ref.] 1). The majority of these lead smelters operated prior to 1964 and closed before the current environmental regulations were instituted. As part of the Eckel study, soil samples were collected from several of the identified former lead smelter properties. Results from the analysis of these soil samples indicated that concentrations of lead exceeded EPA's recommended screening level for lead in residential soils. The results of the Eckel study indicate that the air disposition of lead into soils from the former smelter operations may present an ongoing public health concern due to exposure of residential populations, especially children, located in the vicinity of these former lead smelters, to soils containing elevated concentrations of lead (Refs. 1, 2, and 3).

The Eckel study identified 77 properties that may have been formerly used as lead smelters within EPA Region 3 (Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia). EPA Region 3 is currently investigating these 77 properties. The objective of EPA's investigation of these properties is to (1) determine the potential for lead-contaminated soil to be present at the former lead smelter site or nearby properties (2) identify any populations that may be at risk to exposure to this soil, and (3) determine if soil sampling is warranted at any of these sites or nearby properties.

The following activities were completed as part of the initial screening investigation of each of these former lead smelter sites: (1) verify the former lead smelter address listed in the Eckel study through historical Sanborn fire insurance maps, tax parcel information, and/or contacting

local agencies, (2) determine if the site is listed in EPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database, (3) determine through census information and existing maps the number of schools, daycare centers or recreational parks that exist near the former lead smelter site, (4) determine the population residing within a 4-mile radius of the site, (5) conduct a windshield reconnaissance of the site and surrounding area to document the current land use, identify any exposed soil and verify the existence of any schools, daycare centers or parks in the immediate area, and (6) review all information acquired to determine if the collection and analysis of soil samples is warranted at the site or at any nearby property.

This report summarizes the findings of the tasks outlined above for the former lead smelter known as the Jos. Rosenthal's Sons site located at 1837 North 2nd Street in Philadelphia, Pennsylvania, 19122. Each former smelter property was given a number in Eckel's study. The Eckel study number for this site is 58 (Ref. 1).

2.0 SITE LOCATION

The former Jos. Rosenthal's Sons facility was located at 1837 North 2nd Street in Philadelphia, PA. A second address listed for the Jos. Rosenthal's Sons on the Eckel list is 190-2 West Berks Streets, which is located directly north of this property. This site has been assessed separately, as Eckel site number 59. The geographic coordinates of the former Jos. Rosenthal's Sons facility are 39.978206 north latitude and 75.137113 west longitude on the Philadelphia, Pennsylvania, Quadrangle, 7.5 minute series, United States Geological Survey topographic map (see Appendix A, Figure 1). The site is not currently listed in EPA's CERCLIS database (Ref. 4). An aerial photograph of the vicinity of the former lead smelter site has been included in Appendix A, Figure 2. This aerial photograph reveals the exposed soils and any identified areas of potential concern such as schools, daycare centers, or parks located within a half-mile radius of the site.

3.0 SITE OBSERVATIONS

On October 21, 2005, Tetra Tech completed a non-sampling windshield reconnaissance of the former Jos. Rosenthal's Sons site and surrounding area. A photographic record of the current site conditions is included in Appendix B. Figure 3, shows the current layout of the site and surrounding area as observed during Tetra Tech's site reconnaissance. The following observations were recorded:

- The former Jos. Rosenthal's Son's property is currently a three story automobile shop. The subject property is located in a mixed residential, commercial area.
- Directly adjacent to the property to the north are residential row homes. South of the subject property along 2nd Street are residential row homes. East of the subject property, on Palethorpe Street, are commercial buildings. A used car lot is located east of the subject property between Palethorpe Street and Hancock Street. West of the property is a large commercial warehouse used by American Metal Moulding Corporation.
- No schools, daycare centers, or parks were identified in the immediate vicinity of the site.
- Minimal areas of exposed soils were observed in the immediate vicinity of the site in the used car lot and also associated with the small residential yards surrounding the subject property.
- St. Boniface School is located approximately 1,000 feet northeast of the subject property. No daycare centers or parks were observed in the immediate vicinity of the site.

4.0 POTENTIAL TARGETS

Potential targets identified that may be exposed to lead-contaminated soils remaining in the vicinity of the former Jos. Rosenthal's Sons site include the nearby residential population and any workers that may be employed at or in the nearby vicinity of the site. The residential population within a 4-mile radius of the site is summarized in the table below (Ref. 5).

Population Within a Four-mile Radius of the Site

Distance Ring (miles)	Population (number of persons)
0.0 to 0.25	3,054
0.25 to 0.5	9,361
0.5 to 1.0	39,378
1.0 to 2.0	138,405
2.0 to 3.0	194,328
3.0 to 4.0	265,828

Source: U.S. Department of Commerce. Landview V Environmental Mapping Software based on the Bureau of Census 2000 Population Data. December 6, 2005.

No daycare centers were identified within a one-half mile of the site. Six schools were identified within a one-half mile of the site. St. Boniface School is located approximately 1,000 feet northeast of the subject property. Moffet Elementary School and Miller School are located one-quarter mile south and north of the site, respectively. Saint Michael's School and McKinley School are located one-third mile south and northwest of the site, respectively. Hunter Elementary School is located one-half mile north of the site. A park, Norris Square, was identified approximately one-quarter mile north of the site.

5.0 FINDINGS AND RECOMMENDATIONS

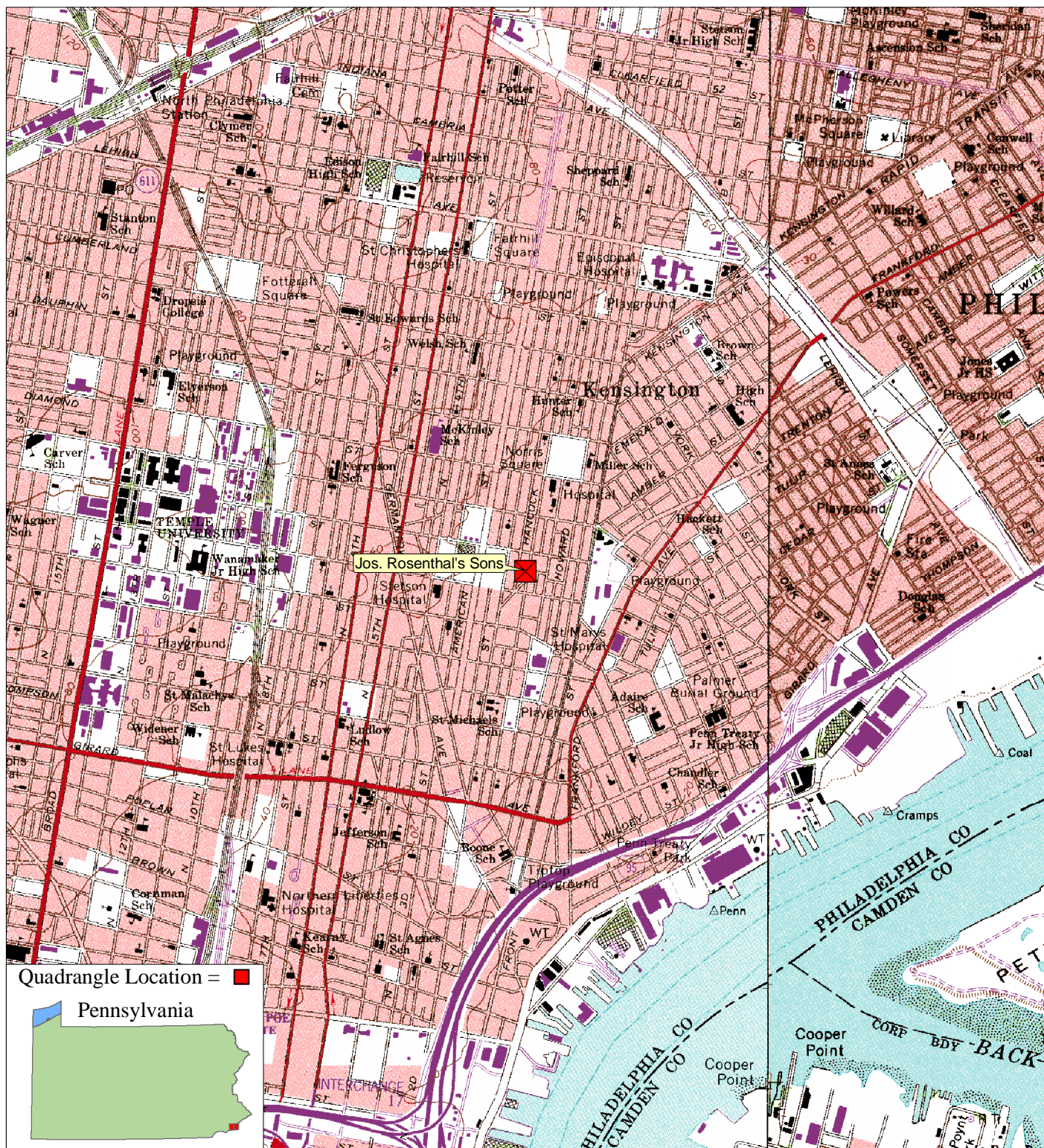
The site is located in a mixed commercial, residential area of Philadelphia, Pennsylvania. Minimal areas of exposed soils were observed in the nearby vicinity of the property formerly used as a lead smelter; therefore, no sampling is recommended for this site at this time.

REFERENCES

1. Eckel, W.P., Rabinowitz, M.B., Foster, G.D. American Journal of Public Health. "Discovering Unrecognized Lead-Smelting Sites by Historical Methods". April 2001.
2. Pennsylvania Department of Health. Suspected Former Lead Smelter Sites: A Potential Risk Factor for Childhood Lead Poisoning. August 2004.
3. U.S. Environmental Protection Agency (EPA). Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities. OSWER Directive 9355.4-12. July 14, 1994.
4. U.S. EPA. Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) database. On-Line Address: <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>
5. U.S. Census Bureau. State and County Quick Facts. Accessed On-Line on December 6, 2005. On-Line Address: quickfacts.census.gov/qfd/states/42.html.

APPENDIX A

Figures



0 0.25 0.5
Miles
Scale in Miles

Jos. Rosenthal's Sons
1837 North 2nd Street
Philadelphia, Pennsylvania
Eckel Site No. 58

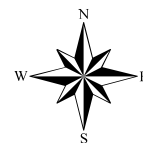
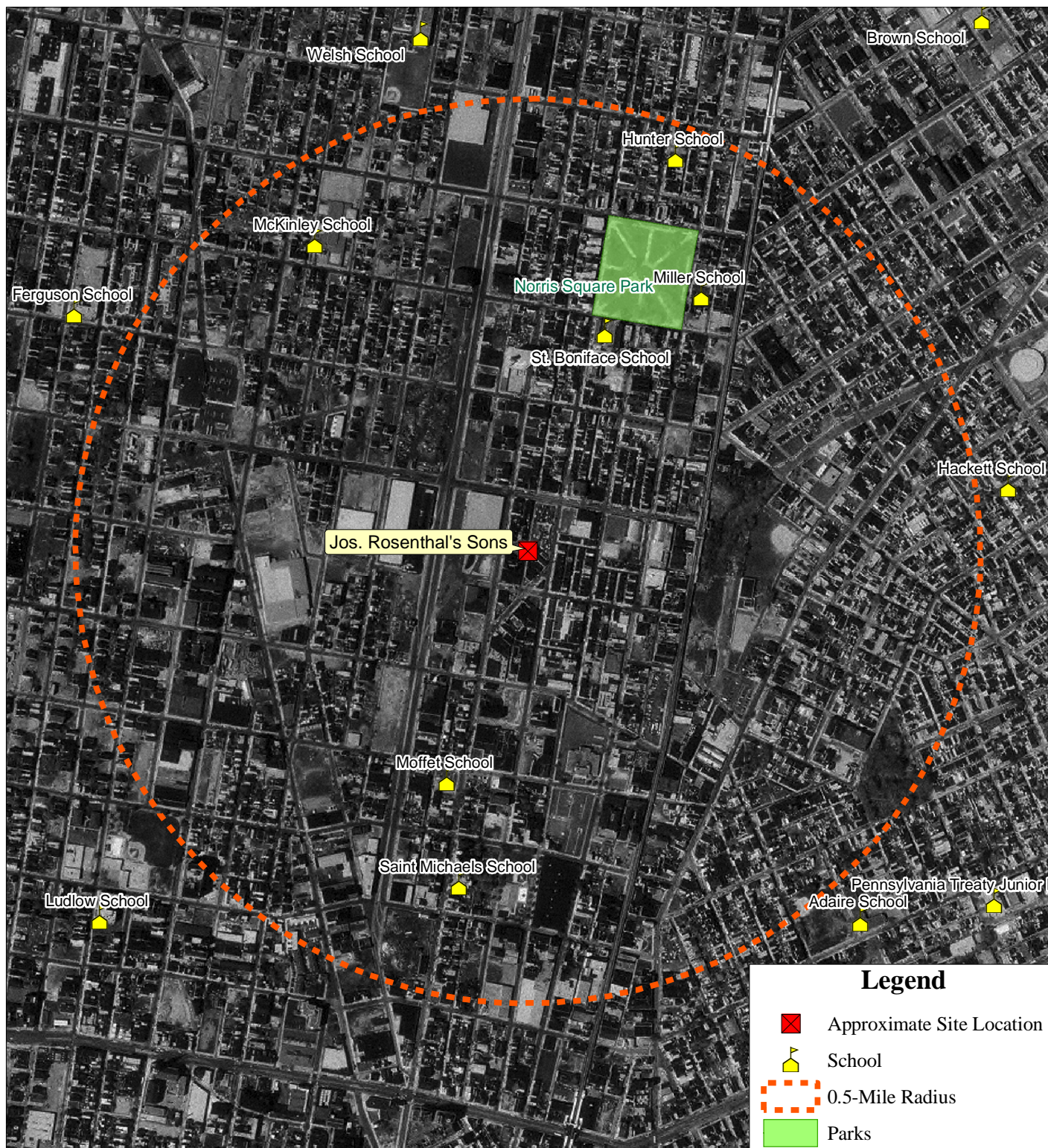


Figure 1
Site Location Map

Source: Modified from USGS 7.5-Minute Series Topographic Quadrangles,
Camden, New Jersey - Pennsylvania, 1995
Philadelphia, Pennsylvania, 1967, Revised 1994





0 500 1,000

 Feet
 Scale in Feet

Jos. Rosenthal's Sons
 1837 North 2nd Street
 Philadelphia, Pennsylvania
 Eckel Site No. 58

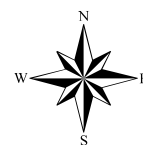


Figure 2
 Aerial Photograph

Source: Modified from Digital Orthophoto (DOQQ) MrSID mosaic for Philadelphia Quadrangle (NAPP III, 1997-2001)





0 100 200
Feet
Scale in Feet

Jos. Rosenthal's Sons
1837 North 2nd Street
Philadelphia, Pennsylvania
Eckel Site No. 58

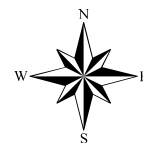


Figure 3
Site Layout Map

Source: Modified from Philadelphia City Planning Commission (PCPC) Department - GIS Division, 2006.



APPENDIX B

Photographic Documentation



Photographic Documentation

Site Name: Jos. Rosenthal's Sons – Eckel Number 58

Location: 1837 North 2nd Street, Philadelphia, Pennsylvania

Prepared by: Tetra Tech EM Inc.

Photographer: [REDACTED]

Photograph No. 1

Photograph Date:

October 21, 2005

Description: View of the former Jos. Rosenthal's Sons property and row homes south of the former Jos. Rosenthal's Sons on North 2nd Street.



Photograph No. 2

Photograph Date:

October 21, 2005

Description: View of the former Jos. Rosenthal's Sons property and row homes north of the former Jos. Rosenthal's Sons on North 2nd Street.





Site Name: Jos. Rosenthal's Sons – Eckel Number 58
Location: 1837 North 2nd Street, Philadelphia,
Pennsylvania

Photographic Documentation

Prepared by: Tetra Tech EM Inc.

Photographer: [REDACTED]

Photograph No. 3

Photograph Date:
October 21, 2005

Description: View of American Metal Moulding Corporation, located on the west side of North 2nd street across from the former Jos. Rosenthal's Sons property.

